

# Hunterdon County



HUNTERDON

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# DeRewal Chemical Company

Route 29 (Delaware River Road)

Kingwood Township

Hunterdon County

**BLOCK:** 50      **LOT:** 4

**CATEGORY:** Superfund  
Federal Lead

**TYPE OF FACILITY:** Manufacturing-Chemical  
**OPERATION STATUS:** Ceased

**PROPERTY SIZE:** 1.4 Acres

**SURROUNDING LAND USE:** Residential/Industrial

## MEDIA AFFECTED

Ground Water

## CONTAMINANTS

Volatile Organic Compounds  
Metals

## STATUS

Delineated

Soil

Volatile Organic Compounds  
Polycyclic Aromatic Hydrocarbons  
Metals

Removing

## FUNDING SOURCES

Superfund  
1986 Bond Fund

## AMOUNT AUTHORIZED

\$4,827,000  
\$1,720,000

## SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

DeRewal Chemical Company operated a chemical manufacturing facility at this site between 1970 and 1974. The site is located in a rural area where ground water is used for drinking water supplies. Operations at the facility involved mixing and packaging a textile preservative and manufacturing an agricultural fungicide. Chemicals used at the facility included metals, acid solutions, fertilizer nutrients and other compounds. Numerous chemical spills were reported in 1973, including one incident in which a tank truck drained 3,000 to 5,000 gallons of highly acidic chromium solution onto the soil. The company excavated the contaminated soil in 1974, but left it on site in two partially covered piles which were allowed to erode. Later that year, the owner of the company ceased operations and filed for bankruptcy.

USEPA added the DeRewal Chemical Company to the National Priorities List of Superfund sites in 1984. A Remedial Investigation and Feasibility Study (RI/FS) conducted for the site revealed that the shallow aquifer was contaminated with volatile organic compounds and metals at levels above ground water criteria. Contamination was also detected in the deeper aquifer, but at levels below ground water quality criteria. The RI/FS also revealed that the soil was contaminated with metals, including chromium, and organic compounds.

In 1989, after completing the RI/FS, USEPA issued a Record of Decision (ROD) with NJDEP concurrence. The ROD required excavation of the contaminated soil, followed by on-site thermal treatment of the organic-contaminated soil and solidification/stabilization of the inorganic-contaminated soil, and extraction of the contaminated shallow ground water with off-site disposal at an industrial waste water treatment facility. However, after reviewing additional data obtained during the Remedial Design process, USEPA formally modified the soil remedy in the ROD to excavation and off-site disposal. USEPA completed removal of approximately 60,000 tons of contaminated soil from the site in the summer of 1998. USEPA is evaluating recent ground water sampling results to determine whether remediation of the shallow aquifer is still warranted now that the soil, which was a source of contamination to the ground water, has been remediated.

## PROJECT NAME      RI/FS      DESIGN      CONSTR      O&M

Sitewide



- ☐ Planned
- ☐ Underway
- ☒ Completed
- ☐ Not Required

# Flemington Water Department Well 7

65 Route 12

Flemington Borough

Hunterdon County

**BLOCK:** 35      **LOT:** 37

**CATEGORY:** Non-Superfund  
State Lead, IEC

**TYPE OF FACILITY:** Unknown Source  
**OPERATION STATUS:** Not Applicable

**PROPERTY SIZE:** Not Applicable

**SURROUNDING LAND USE:** Residential/Commercial

**MEDIA AFFECTED**

Ground Water

**CONTAMINANTS**

Carbon Tetrachloride

**STATUS**

Confirmed

**FUNDING SOURCES**









1986 Bond Fund

**AMOUNT AUTHORIZED**

\$240,000

**SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:**

Flemington Water Department Well #7 was a primary source of potable water for 4,000 Borough residents. The well was closed down in 1994 when routine sampling revealed that the water was contaminated with carbon tetrachloride at levels that exceeded New Jersey Drinking Water Standards. The source of the contamination is unknown. In early 1997, NJDEP completed a Remedial Action Selection (RAS) that concluded installation of an air stripper on the well was the most cost-effective method to address the contamination. The Flemington Water Department completed construction of the air stripper in the spring of 1998 using Hazardous Discharge Bond Fund money provided by NJDEP.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Sitewide					 Planned
					 Underway
					 Completed
					 Not Required

# High Bridge Water Department Well Field Contamination

Buffalo Hollow Road      Lebanon Township      Hunterdon County

**BLOCK:** 10      **LOT:** 38

**CATEGORY:** Non-Superfund  
State Lead (IEC)

**TYPE OF FACILITY:** Unknown Source  
**OPERATION STATUS:** Not Applicable

**PROPERTY SIZE:** Not Applicable

**SURROUNDING LAND USE:** Residential

**MEDIA AFFECTED**

**CONTAMINANTS**

**STATUS**

Ground Water

Trichloroethylene

Confirmed

Potable Water

Trichloroethylene

Blending

**FUNDING SOURCES**









**AMOUNT AUTHORIZED**

1986 Bond Fund

\$200,000

**SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:**

The High Bridge Water Department's Bunnvale Well Field consists of four bedrock aquifer wells. Sampling of the individual wells conducted in 1995 and 1996 revealed that three of the four wells are contaminated with trichloroethylene (TCE) at levels in excess of state drinking water standards. One of the four wells was taken out of service in 1995 due to the high TCE levels, and the contamination in the remaining wells is being reduced to acceptable levels through blending. The source of this contamination is unknown. In 1997, NJDEP completed a Remedial Action Selection (RAS) that concluded the appropriate long-term solution was the installation of an air stripper at the well field to treat the contaminated water. Lebanon Township began constructing the air stripper in 1997 under a third party contract with NJDEP. The air stripper is expected to be completed in the fall of 1998.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Sitewide					 Planned
					 Underway
					 Completed
					 Not Required

# Holland Sales and Service

1050 Milford Glen Road

Holland Township

Hunterdon County

**BLOCK:** 6      **LOT:** 40

**CATEGORY:** Non-Superfund  
State Lead

**TYPE OF FACILITY:** Gas Station  
**OPERATION STATUS:** Active

**PROPERTY SIZE:** 0.9 acre

**SURROUNDING LAND USE:** Residential

## MEDIA AFFECTED

Ground Water

## CONTAMINANTS

Volatile Organic Compounds

## STATUS

Delineating

Potable Water

Volatile Organic Compounds

Treating

Soil

Petroleum Hydrocarbons

Investigating

## FUNDING SOURCES













1986 Bond Fund

## AMOUNT AUTHORIZED

\$115,000

## SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Leaking underground storage tanks contaminated the soil and ground water at this service station during the late 1980s. The owner/operator of the service station removed the leaking tanks and some of the contaminated soil in 1988, but did not address the contaminated ground water. The following year, volatile organic compounds were detected in an on-site potable well. The owner/operator of the service station replaced the on-site contaminated potable well with a deeper one, which showed lower levels of contamination when sampled in 1996. Sampling conducted by NJDEP has revealed that several nearby private potable wells are also contaminated with volatile organic compounds. NJDEP has installed Point-of-Entry Treatment (POET) water filtration systems on the other contaminated wells to provide potable water for these residents. NJDEP has begun a preliminary investigation to determine the extent of the soil and ground water contamination at the site.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Receptor Control (POETS)					 Planned
Sitewide					 Underway
					 Completed
					 Not Required

# Schaffernoth's Nursery

Old York Road & Route 202

East Amwell Township

Hunterdon County

**BLOCK:** 1402    **LOT:** 45

**CATEGORY:** Non-Superfund  
State Lead (IEC)

**TYPE OF FACILITY:** Flower and Garden Center  
**OPERATION STATUS:** Active

**PROPERTY SIZE:** 10 Acres

**SURROUNDING LAND USE:** Agricultural/Residential

## MEDIA AFFECTED

## CONTAMINANTS

## STATUS

Ground Water

Volatile Organic Compounds

Delineating

Potable Water

Volatile Organic Compounds

Investigating

Soil

Volatile Organic Compounds

Delineating

## FUNDING SOURCES

1981 Bond Fund

## AMOUNT AUTHORIZED

\$100,000

## SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

This property is used for agricultural and retail operations. Two thirds of the property is cultivated and the remaining third contains a retail store with two garages and several greenhouses. In March 1997, sampling of the potable well on the site revealed that it was contaminated with high levels of methyl tertiary butyl ether (MTBE), a volatile organic compound that is a component of gasoline. Sampling conducted immediately adjacent to an underground gasoline storage tank on the property indicated the soil and ground water were contaminated with gasoline-related compounds. The property owner removed the leaking underground gasoline storage tank and some of the contaminated soil and installed three ground water monitor wells under the supervision of NJDEP's Bureau of Underground Storage Tanks, but did not conduct any further remedial work. In early 1998, NJDEP's Division of Publicly Funded Site Remediation began a Remedial Investigation/Remedial Action Selection (RI/RAS) to determine the full extent of the contamination in the soil and ground water and identify cleanup options. Sampling of downgradient private potable wells conducted as part of the RI have not revealed any contamination that can be attributed to this site.

## PROJECT NAME    RI/FS    DESIGN    CONSTR    O&M

Sitewide

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- ☐ Planned
- ☒ Underway
- ☐ Completed
- ☐ Not Required

# US Route 22 and Mountain Road Well Contamination

## US Route 22 and Mountain Road

Readington Township

Hunterdon County

**BLOCK:** Various **LOT:** Various

**CATEGORY:** Non-Superfund  
State Lead, IEC

**TYPE OF FACILITY:** Unknown Source  
**OPERATION STATUS:** Not Applicable

**PROPERTY SIZE:** Not Applicable

**SURROUNDING LAND USE:** Residential/Industrial

MEDIA AFFECTED	CONTAMINANTS	STATUS
Ground Water	Volatile Organic Compounds	Confirmed
Potable Water	Volatile Organic Compounds	Treating
Soils	Volatile Organic Compounds	Confirmed

### FUNDING SOURCES


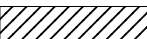



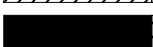
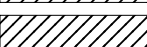





1986 Bond Fund

### AMOUNT AUTHORIZED

\$22,000

### SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

In March 1991, the Hunterdon County Health Department determined that 11 private potable wells in this area were contaminated with various volatile organic compounds. NJDEP installed Point-of-Entry Treatment (POET) water filtration systems in the affected homes to provide potable water for these residents. A water supply alternative analysis conducted by NJDEP concluded that the most cost-effective long-term solution was the continued use of POETs at the affected residences. NJDEP will conduct a preliminary assessment and site investigation to determine the source of the contamination.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Receptor Control (POETS)					 Planned
Water Line					 Underway
					 Completed
					 Not Required



# Willocks Court Ground Water Contamination

Willocks Court

Readington Township

Hunterdon County

**BLOCK:** Various **LOT:** Various

**CATEGORY:** Non-Superfund  
State Lead

**TYPE OF FACILITY:** Unknown Source  
**OPERATION STATUS:** Not Applicable

**PROPERTY SIZE:** Not Applicable

**SURROUNDING LAND USE:** Residential

## MEDIA AFFECTED

Ground Water

## CONTAMINANTS

Trichloroethylene  
Tetrachloroethylene  
1,1 Dichloroethylene

## STATUS

Confirmed

Potable Water

Trichloroethylene  
Tetrachloroethylene  
1,1 Dichloroethylene

Treating

## FUNDING SOURCES









Spill Fund

## AMOUNT AUTHORIZED

\$110,000

## SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

In 1988, the local health department determined that 20 private potable wells in this area were contaminated with chlorinated volatile organic compounds. In 1990, NJDEP installed Point-of-Entry Treatment (POET) water filtration units in the affected homes, delineated a Ground Water Impact Area and conducted a water supply alternative analysis. Based on the results of this analysis, NJDEP concluded that the most cost-effective long-term solution was the continued use of POETs in the affected homes. The Township monitors and maintains the POETs using Spill Fund monies provided by NJDEP. NJDEP is conducting a preliminary assessment and site investigation to determine the source of the ground water contamination.

PROJECT NAME	R/I/FS	DESIGN	CONSTR	O&M	
Receptor Control (POETS)					 Planned
					 Underway
					 Completed
					 Not Required

